

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/003059

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02J7/00 H02J7/35 H01M10/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01M H02J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 196 17 397 A1 (SCHWITAJEWSKI, MANFRED, 91737 ORNBAU, DE) 13 November 1997 (1997-11-13)	1,2,4
Y	-----	3,5-8
Y	US 5 747 967 A (MULJADI ET AL) 5 May 1998 (1998-05-05) figures 1,5 abstract	5,8
Y	US 5 811 958 A (YAMAMOTO ET AL) 22 September 1998 (1998-09-22) column 6, line 17 - column 6, line 28; figure 1	6,7
Y	EP 0 268 338 A (LARSEN, HERLUF JAKOB) 25 May 1988 (1988-05-25) column 3, line 16 - column 3, line 44 ----- -/-	3

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

29 July 2005

Date of mailing of the international search report

12/08/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 93 09 287 U1 (BAUER, MICHAEL, DIPL.-PHYS., 76337 WALDBRONN, DE) 19 August 1993 (1993-08-19) the whole document -----	3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/003059

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19617397	A1	13-11-1997	NONE	
US 5747967	A	05-05-1998	NONE	
US 5811958	A	22-09-1998	JP 3019248 B2 JP 9140071 A JP 9215224 A	13-03-2000 27-05-1997 15-08-1997
EP 0268338	A	25-05-1988	DK 544386 A AT 85950 T CA 1313518 C DE 3784313 D1 DE 3784313 T2 EP 0268338 A2 FI 875022 A ,B, JP 63137082 A KR 9102781 B1 NO 874745 A ,B, US 4814951 A	15-05-1988 15-03-1993 09-02-1993 01-04-1993 24-06-1993 25-05-1988 15-05-1988 09-06-1988 04-05-1991 16-05-1988 21-03-1989
DE 9309287	U1	19-08-1993	NONE	